## **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7627	licheniformis	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 14:25
L2	3950	sporulation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 14:25
L3	34297	spore	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 14:25
L4	35654	12 or 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 14:25
L5	85	4 with  1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 14:27
L6	176	l4 same l1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 14:26
L7	139787	mutant or mutated or mutation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 14:27
L8	4	17 with 15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 14:28

6/7/06 2:29:15 PM Page 1

# SCORE Search Results Details for Application 10510408 and Search Result us-10-510-408-2.rup.

Score Home Retrieve Application SCOR Dage List Overv

SCORE System
Overview

SCORE FAQ Comments / Suggestions

This page gives you Search Results detail for the Application 10510408 and Search Result us-10-510-408-2.rup.

start

Go Back to previous page

GenCore version 5.1.9
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OM protein - protein search, using sw model

Run on: June 2, 2006, 20:25:57; Search time 142 Seconds

(without alignments)

1126.956 Million cell updates/sec

Title: US-10-510-408-2

Perfect score: 875

Sequence: 1 MYSRSKFKIGLLLIGSLLAA.....HVIEAVKSSGSQHHVEDMKT 173

Scoring table: BLOSUM62

Gapop 10.0; Gapext 0.5

Searched: 2849598 seqs, 925015592 residues

Total number of hits satisfying chosen parameters: 2849598

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt\_7.2:\*

1: uniprot\_sprot:\*
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length 1	DB	ID	Description
1	875	100.0	173	2	Q65GP4 BACLD	Q65gp4 bacillus li
2	486.5	55.6	170	1	BOFC BACSU	005391 bacillus su
3	334	38.2	158	2	Q5KWQ8 GEOKA	Q5kwq8 geobacillus
4	281.5	32.2	176	2	Q730B0_BACC1	Q730b0 bacillus ce

5	280.5	32.1	175	2	Q4MS28_BACCE	<del>-</del>	bacillus ce
6	279.5	31.9	176	2	Q634C1_BACCZ	Q634c1	bacillus ce
7	276.5	31.6	176	2	Q3EJ53_BACTI		bacillus th
8	276.5	31.6	176	2	Q817W1_BACCR	<del>-</del>	bacillus ce
9	276.5	31.6	176	2	Q81LG6_BACAN		bacillus an
10	274.5	31.4	176	2	Q6HDA3_BACHK		bacillus th
11	232	26.5	178	2	Q9KDJ0_BACHD		bacillus ha
12	167	19.1	172	2	Q5WHR7_BACSK	Q5whr7	bacillus cl
13	105	12.0	190	2	Q2ZJH5_CALSA	Q2zjh5	caldicellul
14	99	11.3	682	2	Q33NB2_METHU	Q33nb2	methanospir
15	98.5	11.3	712	1	TBPB_NEIMB	Q9k0v0	neisseria m
16	98.5	11.3	712	2	Q9JPI9_NEIME	Q9jpi9	neisseria m
17	96	11.0	357	2	Q7NNF5 GLOVI	Q7nnf5	gloeobacter
18	95	10.9	212	2	Q2SS56 MYCCA	Q2ss56	mycoplasma
19	93.5	10.7	401	2	Q2ZFS4 CALSA	Q2zfs4	caldicellul
20	92.5	10.6	318	2	Q9ZDI9 RICPR	Q9zdi9	rickettsia
21	91.5	10.5	263	2	Q5KSU5 FUGRU	Q5ksu5	fugu rubrip
22	91	10.4	614	2	051187 BORBU	051187	borrelia bu
23	91	10.4	1040	2	Q4EJ23 LISMO	Q4ej23	listeria mo
24	89.5	10.2	709	2	Q2SFX8 9GAMM	Q2sfx8	hahella che
25	89	10.2	276	2	Q6F7N6 ACIAD	Q6f7n6	acinetobact
26	88.5	10.1	318	2	Q68X33 RICTY	Q68x33	rickettsia
27	87.5	10.0	435	2	Q5NVF7 PONPY	Q5nvf7	pongo pygma
28	87.5	10.0	704	2	Q40PH8 DESAC	Q40ph8	desulfuromo
29	87.5	10.0	757	2	Q39Z96 GEOMG	Q39z96	geobacter m
30	87	9.9	309	2	Q379K2 RHOPA	Q379k2	rhodopseudo
31	87	9.9	340	2	Q5NNW0 ZYMMO		zymomonas m
32	87	9.9	802	2	Q60LR3 CAEBR	Q601r3	caenorhabdi
33	87	9.9	1172	1	SMC2 SCHPO	P41003	schizosacch
34	86.5	9.9	425	1	TIG BACAN	Q811b8	bacillus an
35	86.5	9.9	425	1	TIG BACC1	Q72zv3	bacillus ce
36	86.5	9.9	425	1	TIG BACCR	Q812q9	bacillus ce
37	86.5	9.9	425	1	TIG BACCZ	Q633x1	bacillus ce
38	86.5	9.9	425	1	TIG BACHK	Q6hd53	bacillus th
39	86.5	9.9	425	2	Q3EVC1 BACTI	Q3evc1	bacillus th
40	86.5	9.9	425	2	Q4MS78 BACCE		bacillus ce
41	86.5	9.9	433	2	Q3TWV4 MOUSE	Q3twv4	mus musculu
42	86.5	9.9	436	2	Q6A0C9 MOUSE		mus musculu
43	86	9.8	507	2	Q8WQ14 OSTOS		ostertagia
44	86	9.8	1329	2	Q8YYT7 ANASP		anabaena sp
45	85.5	9.8	322	2	Q3UCW9 MOUSE		mus musculu
	Ç3.0		7	_	<u></u>	£	

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     07-FEB-2006, entry version 13.
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GN
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OC
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OX
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RP
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Veith B., Herzberg C., Steckel S., Feesche J., Maurer K.H.,
RA
    Ehrenreich P., Baeumer S., Henne A., Liesegang H., Merkl R.,
RA
RA
    Ehrenreich A., Gottschalk G.;
RT
    "The complete genome sequence of Bacillus licheniformis DSM13, an
RT
    organism with great industrial potential.";
RL
    J. Mol. Microbiol. Biotechnol. 7:204-211(2004).
RN
    [2]
RΡ
    NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
    PubMed=15461803; DOI=10.1186/qb-2004-5-10-r77;
RX
    Rey M.W., Ramaiya P., Nelson B.A., Brody-Karpin S.D., Zaretsky E.J.,
RA
    Tang M., Lopez de Leon A., Xiang H., Gusti V., Clausen I.G.,
RA
    Olsen P.B., Rasmussen M.D., Andersen J.T., Joergensen P.L.,
RA
    Larsen T.S., Sorokin A., Bolotin A., Lapidus A., Galleron N.,
RA
RA
    Ehrlich S.D., Berka R.M.;
    "Complete genome sequence of the industrial bacterium Bacillus
RT
    licheniformis and comparisons with closely related Bacillus species.";
RT
    Genome Biol. 5:RESEARCH077.1-RESEARCH077.12(2004).
RL
    ______
    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
CC
    EMBL; AE017333; AAU41770.1; -; Genomic_DNA.
DR
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DR
KW
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    07-MAR-2006, entry version 37.
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GN
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    Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
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    STRAIN=168 / PY79;
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    Gomez M., Cutting S.M.;
    "BofC encodes a putative forespore regulator of the Bacillus subtilis
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     sigma K checkpoint.";
    Microbiology 143:157-170(1997).
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RN
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    Tosato V., Bolotin A., Bértani I., Valentino I., Bruschi C.V.;
RA
     "A 17.8 kb segment in the spoVB-nadC region of the Bacillus subtilis
RT
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     168 chromosome: sequencing and ruv operon identification.";
     Submitted (DEC-1997) to the EMBL/GenBank/DDBJ databases.
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    Borriss R., Boursier L., Brans A., Braun M., Brignell S.C., Bron S.,
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    Denizot F., Devine K.M., Duesterhoeft A., Ehrlich S.D., Emmerson P.T.,
    Entian K.-D., Errington J., Fabret C., Ferrari E., Foulger D.,
RA Fritz C., Fujita M., Fujita Y., Fuma S., Galizzi A., Galleron N.,
    Ghim S.-Y., Glaser P., Goffeau A., Golightly E.J., Grandi G.,
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    Guiseppi G., Guy B.J., Haga K., Haiech J., Harwood C.R., Henaut A.,
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    Rose M., Sadaie Y., Sato T., Scanlan E., Schleich S., Schroeter R.,
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     Scoffone F., Sekiguchi J., Sekowska A., Seror S.J., Serror P.,
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     Takemaru K., Takeuchi M., Tamakoshi A., Tanaka T., Terpstra P.,
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    Tognoni A., Tosato V., Uchiyama S., Vandenbol M., Vannier F.,
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    Vassarotti A., Viari A., Wambutt R., Wedler E., Wedler H.,
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    Weitzenegger T., Winters P., Wipat A., Yamamoto H., Yamane K.,
    Yasumoto K., Yata K., Yoshida K., Yoshikawa H.-F., Zumstein E.,
RA
     Yoshikawa H., Danchin A.;
     "The complete genome sequence of the Gram-positive bacterium Bacillus
RT
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     subtilis.";
    Nature 390:249-256(1997).
RL
RN
     STRUCTURE BY NMR OF 31-170, AND SUBUNIT.
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     PubMed=16049010; DOI=10.1074/jbc.M506910200;
RX
RA
     Patterson H.M., Brannigan J.A., Cutting S.M., Wilson K.S.,
RA
    Wilkinson A.J., Ab E., Diercks T., de Jong R.N., Truffault V.,
RA
     Folkers G.E., Kaptein R.;
     "The structure of bypass of forespore C, an intercompartmental
RT
RT
     signaling factor during sporulation in Bacillus.";
     J. Biol. Chem. 280:36214-36220(2005).
RL
CC
     -!- FUNCTION: Inhibits the spoIVB zymogen from undergoing
         autocatalytic activation by an unknown mechanism, and in this way
CC
CC
         plays a role in the sigma-K checkpoint of sporulation.
CC
     -!- SUBUNIT: Monomer.
CC
     -!- SUBCELLULAR LOCATION: Forespore intermembrane space.
     ______
CC
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CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
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DR
DR
    EMBL; Y15896; CAB75329.1; -; Genomic_DNA.
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DR
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DR
    PDB; 2BW2; NMR; A=31-170.
DR
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DR
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    BioCyc; BSUB1423:BSU2771-MONOMER; -.
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FT
                96
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    TURN
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    TURN
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    STRAND
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FT
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FT
    TURN
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QУ
                   ||:| | :| | : | :
                                             3 RFSTAYLLLGILCSAAVFLIGAPSRALGAEVEHYEPLQVHVQLEKVYLDGDVSIEHKHEK 62
          57 ARTLEDFKAAYKGWQLIDQKKGFILFRKQVDDISPLSKTNGYIGVTEDGVISTFHGRPGI 116
Qу
               63 VFSMDDFWAAYAGWTLVEQKKGYVLFRKQMDDISPLSKVNGYIGVSDNGVISTFHGRPEP 122
Db
         117 LSEPIQSFFQIDIKRLESRMADDLRKGIPYRTKKEFEHVIEAVKS 161
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DT
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    07-FEB-2006, entry version 5.
DT
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DE
DE
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GN
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os
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OC
OX
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RN
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    NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RP
RC
    STRAIN=HTA426;
    PubMed=15576355; DOI=10.1093/nar/gkh970;
RX
    Takami H., Takaki Y., Chee G.-J., Nishi S., Shimamura S., Suzuki H.,
RA
RA
    Matsui S., Uchiyama I.;
    "Thermoadaptation trait revealed by the genome sequence of
RT
    thermophilic Geobacillus kaustophilus.";
RT
    Nucleic Acids Res. 32:6292-6303(2004).
RL
CC
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CC
CC
    Distributed under the Creative Commons Attribution-NoDerivs License
    _____
CC
    EMBL; BA000043; BAD76878.1; -; Genomic_DNA.
DR
KW
    Complete proteome.
SQ
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Qу
             :[]: ::: | |: | ||: ||||:: | | | ::::
          10 IAAIVLPVHSASAAPVKMTIVLERQYLDGEMSEEKVTETVDSMTEIWKKYRGWQLVTLDD 69
Db
          78 GFILFRKQVDDISPLSKTNGYIGVTEDGVISTFHGRPGILSEPIQSFFQIDIKRLESRMA 137
Qу
               Db
          70 QTIVFRKTINDISPLLKTNGYFGITDDGTLSIFNGKPGRSSEIIQSFFQIDVQKLESRQQ 129
         138 DDLRKGIPYRTKKEFEHVIE 157
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Dh
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DT
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    05-JUL-2004, sequence version 1.
DΤ
    07-FEB-2006, entry version 9.
DE
    Bypass-of-forespore protein C, putative.
GN
    ORFNames=BCE 4507;
    Bacillus cereus (strain ATCC 10987).
OS
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OC
OC
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OX
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RN
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RP
    NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
    PubMed=14960714; DOI=10.1093/nar/gkh258;
RX
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Rasko D.A., Ravel J., Oekstad O.A., Helgason E., Cer R.Z., Jiang L.,
RA
    Shores K.A., Fouts D.E., Tourasse N.J., Angiuoli S.V., Kolonay J.F.,
RA
    Nelson W.C., Kolstoe A.-B., Fraser C.M., Read T.D.;
RA
RT
    "The genome sequence of Bacillus cereus ATCC 10987 reveals metabolic
    adaptations and a large plasmid related to Bacillus anthracis pXO1.";
RT
    Nucleic Acids Res. 32:977-988(2004).
RL
CC
    _____
CC
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    Distributed under the Creative Commons Attribution-NoDerivs License
CC
    _____
CC
    EMBL; AE017194; AAS43408.1; -; Genomic DNA.
DR
KW
    Complete proteome.
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so
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Qу
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DT
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    02-AUG-2005, sequence version 1.
    07-FEB-2006, entry version 2.
DТ
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    ORFNames=BCE G9241 4479;
GN
    Bacillus cereus G9241.
OC
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OC
    Bacillus cereus group.
OX
    NCBI TaxID=269801;
RN
    [1]
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RC
    STRAIN=G9241;
    PubMed=15155910; DOI=10.1073/pnas.0402414101;
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    Hoffmaster A.R., Ravel J., Rasko D.A., Chapman G.D., Chute M.D.,
RA
    Marston C.K., De B.K., Sacchi C.T., Fitzgerald C., Mayer L.W.,
RA
    Maiden M.C.J., Priest F.G., Barker M., Jiang L., Cer R.Z.,
RA
    Rilstone J., Peterson S.N., Weyant R.S., Galloway D.R., Read T.D.,
RA
RA
    Popovic T., Fraser C.M.;
    "Identification of anthrax toxin genes in a Bacillus cereus associated
RT
    with an illness resembling inhalation anthrax.";
RT
    Proc. Natl. Acad. Sci. U.S.A. 101:8449-8454(2004).
RL
CC
    -!- CAUTION: The sequence shown here is derived from an
CC
       EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
CC
       preliminary data.
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Db
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Qy
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RESULT 6
Q634C1 BACCZ
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AC
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DT
    25-OCT-2004, integrated into UniProtKB/TrEMBL.
    25-OCT-2004, sequence version 1.
DT
    07-FEB-2006, entry version 10.
DT
    Probable bypass-of-forespore protein C.
DE
    Name=bofC; OrderedLocusNames=BCE33L4167;
GN
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os
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OC
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OX
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    NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RP
    Brettin T.S., Bruce D., Challacombe J.F., Gilna P., Han C., Hill K.,
RA
    Hitchcock P., Jackson P., Keim P., Longmire J., Lucas S., Okinaka R.,
RA
    Richardson P., Rubin E., Tice H.;
RA
RT
    "Complete genome sequence of Bacillus cereus ZK.";
RL
    Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.
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DR
    EMBL; CP000001; AAU16102.1; -; Genomic DNA.
KW
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Db
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Db
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DT
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    08-NOV-2005, sequence version 1.
DT
    07-FEB-2006, entry version 3.
DT
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GN
os
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OC
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RN
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    Anderson I., Sorokin A., Kapatral V., Reznik G., Bhattacharya A.,
RA
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RA
    D'Souza M., Larsen N., Pusch G., Liolios K., Grechkin Y., Lapidus A.,
RA
    Goltsman E., Chu L., Fonstein M., Ehrlich D., Overbeek R.,
RA
RA
    Kyrpides N., Ivanova N.;
    "Comparative genome analysis of Bacillus cereus group genomes with
RT
    Bacillus subtilis.";
RT
    Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
RL
CC
    -!- CAUTION: The sequence shown here is derived from an
        EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
CC
       preliminary data.
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CC
CC
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DR
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Db
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DT
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    07-FEB-2006, entry version 10.
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GN
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os
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OC
OC
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OX
RN
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RP
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RX
    Ivanova N., Sorokin A., Anderson I., Galleron N., Candelon B.,
RA
    Kapatral V., Bhattacharyya A., Reznik G., Mikhailova N., Lapidus A.,
RA
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RA
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RA
    Overbeek R., Kyrpides N.C.;
RA
    "Genome sequence of Bacillus cereus and comparative analysis with
RT
    Bacillus anthracis.";
    Nature 423:87-91(2003).
RL
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CC
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DR
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KW
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DT
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DT
    07-FEB-2006, entry version 15.
DT
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    OrderedLocusNames=BA4653, BAS4318, GBAA4653; ORFNames=BA 4653;
GN
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os
    Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus;
OC
OC
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OX
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RN
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RX
    Read T.D., Peterson S.N., Tourasse N.J., Baillie L.W., Paulsen I.T.,
RA
    Nelson K.E., Tettelin H., Fouts D.E., Eisen J.A., Gill S.R.,
RA
    Holtzapple E.K., Okstad O.A., Helgason E., Rilstone J., Wu M.,
RA
RA
    Kolonay J.F., Beanan M.J., Dodson R.J., Brinkac L.M., Gwinn M.L.,
    DeBoy R.T., Madpu R., Daugherty S.C., Durkin A.S., Haft D.H.,
RA
RA
    Nelson W.C., Peterson J.D., Pop M., Khouri H.M., Radune D.,
RA
    Benton J.L., Mahamoud Y., Jiang L., Hance I.R., Weidman J.F.,
    Berry K.J., Plaut R.D., Wolf A.M., Watkins K.L., Nierman W.C.,
RA
    Hazen A., Cline R.T., Redmond C., Thwaite J.E., White O.,
RA
    Salzberg S.L., Thomason B., Friedlander A.M., Koehler T.M.,
RA
    Hanna P.C., Kolstoe A.-B., Fraser C.M.;
RA
RT
    "The genome sequence of Bacillus anthracis Ames and comparison to
RT
    closely related bacteria.";
    Nature 423:81-86(2003).
RL
RN
    NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
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RC
    STRAIN=Ames ancestor;
    Ravel J., Rasko D.A., Shumway M.F., Jiang L., Cer R.Z., Federova N.B.,
    Wilson M., Stanley S., Decker S., Read T.D., Salzberg S.L.,
RA
    Fraser C.M.;
RT
    "Bacillus anthracis comparative genomics.";
    Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
RL
RN
RP
    NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
    STRAIN=Sterne;
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    Brettin T.S., Bruce D., Challacombe J.F., Gilna P., Han C., Hill K.,
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    Hitchcock P., Jackson P., Keim P., Longmire J., Lucas S., Okinaka R.,
RA
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    Richardson P., Rubin E., Tice H.;
    "Complete genome sequence of Bacillus anthracis Sterne.";
RT
    Submitted (JAN-2004) to the EMBL/GenBank/DDBJ databases.
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DR
    EMBL; AE016879; AAP28356.1; -; Genomic_DNA.
DR
    EMBL; AE017334; AAT33775.1; -; Genomic_DNA.
    EMBL; AE017225; AAT56616.1; -; Genomic DNA.
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Qу
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             Db
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DT
    19-JUL-2004, sequence version 1.
    07-FEB-2006, entry version 9.
DT
    Probable bypass-of-forespore protein C.
DE
    Name=bofC; OrderedLocusNames=BT9727 4156;
GN
    Bacillus thuringiensis subsp. konkukian.
os
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oc
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OC
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    NCBI TaxID=180856;
RN
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    NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RP
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    STRAIN=97-27;
    Brettin T.S., Bruce D., Challacombe J.F., Gilna P., Han C., Hill K.,
RA
    Hitchcock P., Jackson P., Keim P., Longmire J., Lucas S., Okinaka R.,
    Richardson P., Rubin E., Tice H.;
RA
    "Complete genome sequence of Bacillus thuringiensis 97-27.";
RT
    Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
RL
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CC
    EMBL; AE017355; AAT63714.1; -; Genomic DNA.
DR
KW
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Db
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Qу
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Db
Qу
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AC
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DT
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DT
    07-FEB-2006, entry version 16.
DT
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DE
GN
    OrderedLocusNames=BH1223;
os
    Bacillus halodurans.
    Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
OC
OX
    NCBI TaxID=86665;
RN
RP
    NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
    STRAIN=C-125 / JCM 9153;
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MEDLINE=20512582; PubMed=11058132; DOI=10.1093/nar/28.21.4317;
RX
    Takami H., Nakasone K., Takaki Y., Maeno G., Sasaki R., Masui N.,
RA
    Fuji F., Hirama C., Nakamura Y., Ogasawara N., Kuhara S.,
RA
    Horikoshi K.;
RA
    "Complete genome sequence of the alkaliphilic bacterium Bacillus
RT
RT
    halodurans and genomic sequence comparison with Bacillus subtilis.";
    Nucleic Acids Res. 28:4317-4331(2000).
RL
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DR
    EMBL; BA000004; BAB04942.1; -; Genomic_DNA.
DR
    PIR; G83802; G83802.
DR
    BioCyc; BHAL86665:BH1223-MONOMER; -.
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Qу
                        : 11
                                    : ::||: |:||:: | |
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Qу
                       :: :| | |:|||:| ||: :: || :: : |
         80 HGWIFVSQNGDEMILKKDVPDLSPLTKANGFFSISNDGQLNLYDG--SAEEQPIIQSFFR 137
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Qу
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    23-NOV-2004, integrated into UniProtKB/TrEMBL.
    23-NOV-2004, sequence version 1.
DT
DT
    07-FEB-2006, entry version 8.
    Forespore regulator of the sigma-K checkpoint.
DE
    OrderedLocusNames=ABC1553;
GN
OS
    Bacillus clausii (strain KSM-K16).
OC
    Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
OX
    NCBI_TaxID=66692;
RN
    [1]
    NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RP
    Takaki Y., Kageyama Y., Shimamura S., Suzuki H., Nishi S., Hatada Y.,
RA
    Kawai S., Ito S., Horikoshi K.;
RA
    "The complete genome sequence of the alkaliphilic Bacillus clausii
RT
RT
    KSM-K16.";
    Submitted (OCT-2003) to the EMBL/GenBank/DDBJ databases.
RL
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CC
DR
    EMBL; AP006627; BAD64088.1; -; Genomic_DNA.
KW
    Complete proteome.
SQ
    SEQUENCE 172 AA; 19409 MW; 8BBDC809CB1048A2 CRC64;
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19.1%; Score 167; DB 2; Length 172;
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         60 LEDFKAAYKGWQLIDQKKGFILFRKQVDDISPLSKTNGYIGVTEDGVISTFHGRPGILSE 119
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    20-DEC-2005, sequence version 1.
    07-FEB-2006, entry version 3.
DT
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DΕ
GN
    ORFNames=CsacDRAFT 1333;
    Caldicellulosiruptor saccharolyticus DSM 8903.
os
    Bacteria; Firmicutes; Clostridia; Clostridiales; Syntrophomonadaceae;
OC
OC
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OX
    NCBI TaxID=351627;
RN
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RP
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RG
    US DOE Joint Genome Institute (JGI-PGF);
    Copeland A., Lucas S., Lapidus A., Barry K., Detter J.C., Glavina T.,
RA
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RA
    "Sequencing of the draft genome and assembly of Caldicellulosiruptor
RT
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RT
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RN
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    "Annotation of the draft genome assembly of Caldicellulosiruptor
RT
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RT
    Submitted (NOV-2005) to the EMBL/GenBank/DDBJ databases.
RL
    -!- CAUTION: The sequence shown here is derived from an
CC
        EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
CC
        preliminary data.
CC
    _____
CC
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CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
    ______
CC
    EMBL; AALW01000009; EAP43465.1; -; Genomic_DNA.
DR
    Hypothetical protein; Signal.
KW
FT
    SIGNAL 1 34 Potential.
    SEQUENCE 190 AA; 21788 MW; C36C0158B923C919 CRC64;
SO
  Query Match
                       12.0%; Score 105; DB 2; Length 190;
  Best Local Similarity 22.6%; Pred. No. 1.1;
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Matches
         38; Conservative
                             39; Mismatches
                                             75; Indels
                                                          16; Gaps
                                                                      6;
Qy
          4 RSKFKIGLLLIGSLLAALSFHLEALAEKPAKVQIQLEKVYLDGDVG--IENKVEAAR--- 58
                    32 KSKIKSKQQLKGKNITEIAYIKDSFPQRINEDTILVVRKYFKG-CGHIIEEKSNISKEFV 90
Db
         59 --TLEDFKAAYKGWQLIDQKKGFILFRKQVDDISPLSKTNGYIGVTEDGVISTFHGRPGI 116
Qу
              1 | | | | | : : | | | : : |
                              91 NMTKEDFKSLFSGWEIDAFNSKYVVISRTFEGYC----SNHFIISIKDDRVAIFYSQP-V 145
Db
         117 LSEPIQSFFQIDIKRLESRMADDLRKGIPYRTKKEFEHVIEAVKSSGS 164
QУ
                     1 | | : :||:||
                                            || |: |:
         146 DGDNLKLVTPISIDDLPEKEVEDLKKGI---VVNSFEDAIKIVEDFGS 190
Db
RESULT 14
Q33NB2 METHU
    Q33NB2 METHU PRELIMINARY;
                                PRT;
                                      682 AA.
    Q33NB2;
AC
    06-DEC-2005, integrated into UniProtKB/TrEMBL.
DT
    06-DEC-2005, sequence version 1.
DT
    07-FEB-2006, entry version 3.
DT
    Hypothetical protein.
DΕ
GN
    ORFNames=MhunDRAFT 3177;
    Methanospirillum hungatei JF-1.
os
    Archaea; Euryarchaeota; Methanomicrobia; Methanomicrobiales;
OC
    Methanospirillaceae; Methanospirillum.
OC
    NCBI TaxID=323259;
OX
RN
RP
    NUCLEOTIDE SEQUENCE.
RC
    STRAIN=JF-1;
    US DOE Joint Genome Institute (JGI-PGF);
RG
    Copeland A., Lucas S., Lapidus A., Barry K., Detter J.C., Glavina T.,
RA
    Hammon N., Israni S., Pitluck S., Richardson P.;
RA
    "Sequencing of the draft genome and assembly of Methanospirillum
RT
    hungatei JF-1.";
RT
    Submitted (OCT-2005) to the EMBL/GenBank/DDBJ databases.
RL
RN
    NUCLEOTIDE SEQUENCE.
RP
RC
    STRAIN=JF-1;
RG
    US DOE Joint Genome Institute (JGI-ORNL);
RA
    Larimer F., Land M.;
    "Annotation of the draft genome assembly of Methanospirillum hungatei
RT
RT
    Submitted (NOV-2005) to the EMBL/GenBank/DDBJ databases.
RL
    -!- CAUTION: The sequence shown here is derived from an
CC
CC
        EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
CC
        preliminary data.
    ____________
CC
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CC
    Distributed under the Creative Commons Attribution-NoDerivs License
CC
    _____
CC
DR
    EMBL; AALU01000001; EAP17254.1; -; Genomic DNA.
KW
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    SEQUENCE 682 AA; 79233 MW; DD76EF8BBDE3B67D CRC64;
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 Query Match
                       11.3%; Score 99; DB 2; Length 682;
                       25.6%; Pred. No. 15;
 Best Local Similarity
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 Matches 41; Conservative 32; Mismatches
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          11 LLLIGSLLAALSFHLEALAEKPAKVOIQLEKVYLDGDVGIENKVEAARTLEDFKAAYKGW 70
Qу
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90 LTRISELEKSLSEYLSSIQEKEAQIQILTDLVK-----EHENTASQKIEDFSARIK-- 140
Db
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Qу
            141 QLTDQLESQKVLFEKEKSDLR--SEYEEILAKTRDEVVRKEHELRTLASD------ 188
Db
         130 KRLESRMADDLR-----KGIPYRTKKEFEHVIEAVKS 161
QУ
              1::1:1:: | : | : | : | : :1:::1
         189 -- LKNRIAEEKRVQKDRIREQGEYTKRISELQSFLESARS 226
Db
RESULT 15
TBPB NEIMB
ID TBPB NEIMB
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                               PRT: 712 AA.
    Q9K0V0;
AC
    11-JAN-2001, integrated into UniProtKB/Swiss-Prot.
DT
    01-OCT-2000, sequence version 1.
    07-MAR-2006, entry version 31.
DT
    Transferrin-binding protein 2 precursor (TBP-2).
DE
    Name=tbpB; Synonyms=tbp2; OrderedLocusNames=NMB0460;
GN
    Neisseria meningitidis serogroup B.
OS
    Bacteria; Proteobacteria; Betaproteobacteria; Neisseriales;
OC
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OC
OX
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    [1]
    NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
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    Tettelin H., Saunders N.J., Heidelberg J.F., Jeffries A.C.,
RA
    Nelson K.E., Eisen J.A., Ketchum K.A., Hood D.W., Peden J.F.,
RA
    Dodson R.J., Nelson W.C., Gwinn M.L., DeBoy R.T., Peterson J.D.,
RA
    Hickey E.K., Haft D.H., Salzberg S.L., White O., Fleischmann R.D.,
RA
    Dougherty B.A., Mason T.M., Ciecko A., Parksey D.S., Blair E.,
RA
    Cittone H., Clark E.B., Cotton M.D., Utterback T.R., Khouri H.M.,
    Qin H., Vamathevan J.J., Gill J., Scarlato V., Masignani V., Pizza M.,
RA
    Grandi G., Sun L., Smith H.O., Fraser C.M., Moxon E.R., Rappuoli R.,
RA
RA
    Venter J.C.;
    "Complete genome sequence of Neisseria meningitidis serogroup B strain
RT
RL
    Science 287:1809-1815(2000).
    -!- FUNCTION: Acts as a transferrin receptor and is required for
CC
CC
        transferrin utilization (By similarity).
    -!- SUBCELLULAR LOCATION: Outer membrane; lipid-anchor (Probable).
CC
    _____
CC
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CC
CC
    Distributed under the Creative Commons Attribution-NoDerivs License
    _____
CC
    EMBL; AE002098; AAF40897.1; -; Genomic DNA.
DR
DR
    PIR; E81196; E81196.
DR
    GenomeReviews; AE002098 GR; NMB0460.
    TIGR; NMB0460; -.
DR
    BioCyc; NMEN491:NMB0460-MONOMER; -.
    InterPro; IPR000437; Prok lipoprot S.
DR
    InterPro; IPR001677; Transferrin bd.
DR
    Pfam; PF01298; Lipoprotein 5; 1.
DR
    PROSITE; PS00013; PROKAR LIPOPROTEIN; FALSE NEG.
DR
    Complete proteome; Lipoprotein; Membrane; Outer membrane; Palmitate;
KW
    Receptor; Signal.
    SIGNAL 1
                      20
                               By similarity.
FT
                               Transferrin-binding protein 2.
    CHAIN
                21
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FT
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FT
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                            S-diacylglycerol cysteine (Probable).
FT
    LIPID
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 Query Match 11.3%; Score 98.5; DB 1; Length 712; Best Local Similarity 25.5%; Pred. No. 17;
 Matches 40; Conservative 21; Mismatches
                                        55; Indels
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Qу
           11 1: 1:11 1 1
         99 ELPKRQKSVIEKVETDSDNNIYSSPYLKPSNHQNGNTGNGINQPKNQAKDYENFKYVYSG 158
Db
         70 WQLIDQKKGFILFRKQVDDISPLSKTNGYIGVTEDGVISTFHGRPGILSEPIQSFFQIDI 129
Qу
           159 WFYKHAKREFNL----KVEPKSAKNG----DDGYI-FYHGKEP--SRQLPASGKITY 204
Db
        130 KRLESRMADDLRKGIPYRTKKEFEHVIEAVKSSGSQH 166
Qу
           Db
        205 KGV-WHFATDTKKG-----QKFREIIQPSKSQGDRY 234
Search completed: June 2, 2006, 20:29:51
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Job time : 146 secs

SCORE 1.3 BuildDate: 12/06/2005

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OM protein - protein search, using sw model

Run on: June 2, 2006, 20:27:32; Search time 22 Seconds

(without alignments)

756.614 Million cell updates/sec

Title: US-10-510-408-2

Perfect score: 875

Sequence: 1 MYSRSKFKIGLLLIGSLLAA.....HVIEAVKSSGSQHHVEDMKT 173

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR\_80:\*

1: pir1:\* 2: pir2:\* 3: pir3:\*

4: pir4:\*

0

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	% Query Match	Length	DB	ID	Description
1	486.5	55.6	170	<b></b>	A69596	forespore sigma-K
2	232	26.5	178	2	G83802	forespore sigma-K
3	98.5	11.3	712	2	E81196	transferrin-bindin
4	92.5	10.6	318	1	E71690	minor teichoic aci
5	91	10.4	614	2	E70120	hypothetical prote
6	87	9.9	1172	2	S51623	cut14 protein - fi
7	86	9.8	1329	2	AE1901	WD-repeat containi
8	85.5	9.8	435	2	149327	clathrin-associate
9	85.5	9.8	435	2	A31596	clathrin coat asse
10	84.5	9.7	435	2	G02088	assembly protein 5
11	84	9.6	338	1	DENDG	glyceraldehyde-3-p
12	83.5	9.5	180	2	C89929	conserved hypothet
13	83	9.5	328	2	F83599	hypothetical prote
14	82	9.4	1281	1	GNMSLL	retrovirus-related
15	82	9.4	1375	2	T37672	probable DNA repai
16	81.5	9.3	242	2	A89852	conserved hypothet
17	81.5	9.3	435	2	JC6563	clathrin-associate
18	81.5	9.3	628	2	н89917	conserved hypothet
19	80.5	9.2	620	2	C69278	chorismate mutase/

20	80.5	9.2	1517	2	F85985
21	80	9.1	166	2	D95203
22	80	9.1	328	2	B38477
23	80	9.1	370	2	A25004
24	80	9.1	416	2	T52497
25	79.5	9.1	553	2	F96982
26	79.5	9.1	577	2	н72368
27	79.5	9.1	1517	1	F65112
28	79.5	9.1	1538	2	AF0432
29	79	9.0	328	2	B72850
30	79	9.0	348	2	S38148
31	79	9.0	353	2	A72410
32	79	9.0	599	2	T48039
33	79	9.0	934	2	н88391
34	78.5	9.0	295	2	T07730
35	78.5	9.0	561	2	B90414
36	78.5	9.0	722	2	A82617
37	78.5	9.0	1486	2	AI0906
38	78	8.9	338	2	T06781
39	78	8.9	1291	2	Т06692
40	77.5	8.9	297	2	E86828
41	77.5	8.9	390	2	S25787
42	77	8.8	259	2	H64211
43	77	8.8	281	2	F69323
44	77	8.8	390	2	D82922
45	77	8.8	461	2	B82155

glutamate synthase isochorismatase fa hypothetical prote keratin, 53K type hypothetical prote  $\ \ \, \text{fision threonyl-tR} \\$ proline-tRNA ligas glutamate synthase glutamate synthase baculovirus repeat hypothetical prote chorismate mutase/ hypothetical prote protein R06B10.2 [ glyceraldehyde-3-p hypothetical prote glycyl-tRNA synthe glutamate synthase glyceraldehyde-3-p hypothetical prote hypothetical prote hypothetical prote guanylate kinase ( ATP phosphoribosyl conserved hypothet deoxyribodipyrimid

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OM protein - protein search, using sw model

Run on: June 2, 2006, 20:27:43; Search time 183 Seconds

(without alignments)

437.903 Million cell updates/sec

Title: US-10-510-408-2

Perfect score: 875

Sequence: 1 MYSRSKFKIGLLLIGSLLAA.....HVIEAVKSSGSQHHVEDMKT 173

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2097797 segs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Published Applications AA Main:\*

1: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*
2: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*
3: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*
4: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US10A\_PUBCOMB.pep:\*
5: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*
6: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		ક				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	875	100.0	 173	 5	US-10-510-408-2	Seguence 2, Appli
_				_	= ' ' '	
. 2	875	100.0	173	5	US-10-510-386-124	Sequence 124, App
3	98.5	11.3	712	4	US-10-240-218-8	Sequence 8, Appli
4	98.5	11.3	712	4	US-10-320-800-73	Sequence 73, Appl
5	98.5	11.3	712	4	US-10-220-481-85	Sequence 85, Appl
6	91	10.4	592	5	US-10-994-726-346	Sequence 346, App
7	91	10.4	612	5	US-10-994-726-345	Sequence 345, App
8	89.5	10.2	435	4	US-10-408-765A-1973	Sequence 1973, Ap
9	88.5	10.1	845	4	US-10-437-963-186548	Sequence 186548,
10	87.5	10.0	431	4	US-10-408-765A-2629	Sequence 2629, Ap
11	87	9.9	1172	4	US-10-369-493-2552	Sequence 2552, Ap
12	86	9.8	1533	4	US-10-437-963-128345	Sequence 128345,
13	85.5	9.8	435	5	US-10-367-057-61	Sequence 61, Appl
14	84	9.6	338	6	US-11-188-298-2895	Sequence 2895, Ap
15	84	9.6	980	4	US-10-437-963-128383	Sequence 128383,
16	82.5	9.4	256	4	US-10-424-599-167485	Sequence 167485,

17	82	9.4	1375	5	US-10-732-923-8606	Sequence	8606, Ap
18	81.5	9.3	618	3	US-09-815-242-10864	Sequence	10864, A
19	81.5	9.3	628	3	US-09-815-242-12616	Sequence	12616, A
20	81.5	9.3	628	4	US-10-282-122A-44243	Sequence	44243, A
21	81.5	9.3	640	3	US-09-815-242-5296	Sequence	5296, Ap
22	81.5	9.3	770	4	US-10-282-122A-57088	Sequence	57088, A
23	80	9.1	166	4	US-10-282-122A-73643	Sequence	73643, A
24	80	9.1	166	5	US-10-472-928-3600	Sequence	3600, Ap
25	80	9.1	166	5	US-10-617-320-3096	Sequence	3096, Ap
26	79.5	9.1	610	5	US-10-450-763-36711	Sequence	36711, A
27	79.5	9.1	906	5	US-10-450-763-48680	Sequence	48680, A
28	79.5	9.1	1449	5	US-10-450-763-60431	Sequence	60431, A
29	79.5	9.1	1517	3	US-09-815-242-10325	Sequence	10325, A
30	79.5	9.1	1517	4	US-10-282-122A-56712	Sequence	56712, A
31	79.5	9.1	1538	4	US-10-282-122A-78229	Sequence	78229, A
32	79	9.0	2273	4	US-10-425-115-314032	Sequence	314032,
33	78.5	9.0	278	5	US-10-450-763-58916	Sequence	58916, A
34	78.5	9.0	295	6	US-11-188-298-12304	Sequence	12304, A
35	78.5	9.0	1486	3	US-09-815-242-13728	Sequence	13728, A
36	78.5	9.0	1486	4	US-10-282-122A-75057	Sequence	75057, A
37	78.5	9.0	1486	4	US-10-282-122A-75654	Sequence	75654, A
38	78	8.9	338	6	US-11-188-298-1497	Sequence	1497, Ap
39	78	8.9	495	4	US-10-424-599-232793	Sequence	232793,
40	77.5	8.9	322	4	US-10-369-493-13946	Sequence	13946, A
41	77.5	8.9	434	4	US-10-425-114-54183	Sequence	54183, A
42	77.5	8.9	434	4	US-10-425-115-291120	Sequence	291120,
43	77.5	8.9	536	3	US-09-738-626-6061	Sequence	6061, Ap
44	77.5	8.9	876	4	US-10-437-963-168060	Sequence	168060,
45	77.5	8.9	1639	4	US-10-437-963-128536	Sequence	128536,

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OM protein - protein search, using sw model

June 2, 2006, 20:28:58; Search time 14 Seconds Run on:

(without alignments)

142.912 Million cell updates/sec

US-10-510-408-2 Title:

Perfect score: 875

1 MYSRSKFKIGLLLIGSLLAA......HVIEAVKSSGSQHHVEDMKT 173 Sequence:

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 58871 seqs, 11565156 residues

Total number of hits satisfying chosen parameters: 58871

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Published Applications AA New:\* Database :

1: /EMC Celerra SIDS3/ptodata/2/pubpaa/US09 NEW PUB.pep:\* 2: /EMC Celerra SIDS3/ptodata/2/pubpaa/US06\_NEW\_PUB.pep:\* 3: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US07\_NEW\_PUB.pep:\* 4: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US08\_NEW\_PUB.pep:\* 5: /EMC Celerra SIDS3/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep:\*

6: /EMC Celerra\_SIDS3/ptodata/2/pubpaa/US10\_NEW\_PUB.pep:\* 7: /EMC Celerra SIDS3/ptodata/2/pubpaa/US11\_NEW\_PUB.pep:\* 8: /EMC Celerra SIDS3/ptodata/2/pubpaa/US60\_NEW\_PUB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	% Query Match	Length	DB	ID	Description
1	77	8.8	426	6	US-10-953-349-16804	Sequence 16804, A
2	77	8.8	431	6	US-10-953-349-16803	Sequence 16803, A
3	75.5	8.6	887	6	US-10-527-411-161	Sequence 161, App
4	74.5	8.5	502	6	US-10-953-349-3682	Sequence 3682, Ap
5	74	8.5	312	6	US-10-953-349-23648	Sequence 23648, A
6	74	8.5	641	7	US-11-249-111-76	Sequence 76, Appl
7	73.5	8.4	348	6	US-10-953-349-6565	Sequence 6565, Ap
8	73.5	8.4	382	6	US-10-953-349-6564	Sequence 6564, Ap
9	73.5	8.4	386	6	US-10-953-349-6563	Sequence 6563, Ap
10	73	8.3	294	6	US-10-953-349-8740	Sequence 8740, Ap
11	73	8.3	338	6	US-10-953-349-8739	Sequence 8739, Ap
12	73	8.3	364	6	US-10-953-349-8738	Sequence 8738, Ap
13	72.5	8.3	259	6	US-10-953-349-16805	Sequence 16805, A
14	72.5	8.3	2871	6	US-10-505-928-100	Sequence 100, App

15	71.5	8.2	296	7	US-11-246-957-15	Sequence 15, Appl
16	71.5	8.2	1013	6	US-10-527-411-18	Sequence 18, Appl
17	71	8.1	311	6	US-10-953-349-21965	Sequence 21965, A
18	71	8.1	321	6	US-10-953-349-21964	Sequence 21964, A
19	71	8.1	382	6	US-10-953-349-3683	Sequence 3683, Ap
20	71	8.1	708	7	US-11-293-697-4329	Sequence 4329, Ap
21	70	8.0	291	6	US-10-953-349-8115	Sequence 8115, Ap
22	70	8.0	294	6	US-10-953-349-8114	Sequence 8114, Ap
23	70	8.0	338	6	US-10-953-349-8113	Sequence 8113, Ap
24	70	8.0	787	7	US-11-293-697-3773	Sequence 3773, Ap
25	69.5	7.9	398	7	US-11-219-635-18	Sequence 18, Appl
26	69.5	7.9	673	7	US-11-219-635-2	Sequence 2, Appli
27	69.5	7.9	770	7	US-11-219-635-26	Sequence 26, Appl
28	69	7.9	323	6	US-10-953-349-11054	Sequence 11054, A
29	69	7.9	341	6	US-10-953-349-11053	Sequence 11053, A
30	69	7.9	471	6	US-10-953-349-11052	Sequence 11052, A
31	68.5	7.8	464	6	US-10-953-349-4418	Sequence 4418, Ap
32	68.5	7.8	469	6	US-10-953-349-4417	Sequence 4417, Ap
33	68.5	7.8	504	6	US-10-953-349-4416	Sequence 4416, Ap
34	68	7.8	211	6	US-10-953-349-4200	Sequence 4200, Ap
35	68	7.8	246	6	US-10-953-349-4199	Sequence 4199, Ap
36	68	7.8	272	6	US-10-953-349-4198	Sequence 4198, Ap
37	68	7.8	442	6	US-10-505-928-525	Sequence 525, App
38	67.5	7.7	879	6	US-10-527-411-159	Sequence 159, App
39	67	7.7	296	7	US-11-246-957-20	Sequence 20, Appl
40	67	7.7	863	6	US-10-505-928-158	Sequence 158, App
41	66.5	7.6	216	6	US-10-953-349-28992	Sequence 28992, A
42	66.5	7.6	305	6	US-10-953-349-23286	Sequence 23286, A
43	66	7.5	1085	6	US-10-505-928-175	Sequence 175, App
44	65.5	7.5	419	6	US-10-953-349-21528	Sequence 21528, A
45	65.5	7.5	467	6	US-10-953-349-21527	Sequence 21527, A

### SCORE Search Results Details for Application 10510408 and Search Result us-10-510-408-2

Score Home Page Retrieve Application List SCORE System Overview SCORE FAQ Comments / Sugg

This page gives you Search Results detail for the Application 10510408 and Search Result us-10-5: 2.rai.

<u>start</u>

Go Back to p

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OM protein - protein search, using sw model

June 2, 2006, 20:27:41 ; Search time 49 Seconds Run on:

(without alignments)

309.037 Million cell updates/sec

Title: US-10-510-408-2

Perfect score: 875

1 MYSRSKFKIGLLLIGSLLAA.....HVIEAVKSSGSQHHVEDMKT 173 Sequence:

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

650591 segs, 87530628 residues Searched:

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

1: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/5 COMB.pep:\* 2: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/6\_COMB.pep:\* 3: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/7\_COMB.pep:\* 4: /EMC Celerra SIDS3/ptodata/2/iaa/H\_COMB.pep:\* 5: /EMC Celerra\_SIDS3/ptodata/2/iaa/PCTUS COMB.pep:\* 6: /EMC Celerra SIDS3/ptodata/2/iaa/RE COMB.pep:\* 7: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	% Query Match	Length	DB	ID	Description
1 2	94 91	10.7	298 592	_	US-09-328-352-6064 US-09-830-230A-346	Sequence 6064, Ap Sequence 346, App

3	91	10.4	612	2	US-09-830-230A-345	Seguence	345, App
4	85.5	9.8	435	2	US-09-538-092-963		963, App
5	84.5	9.7	435	2	US-09-664-958-12		12, Appl
6	83	9.5	354	2	US-09-252-991A-27916		27916, A
7	80	9.1	166	2	US-09-583-110-3094		3094, Ap
8	80	9.1	166	2	US-09-107-433-3096		3096, Ap
9	79	9.0	348	2	US-09-315-794-42		42, Appl
10	79	9.0	348	2	US-09-389-341-42	Sequence	42, Appl
11	77.5	8.9	510	2	US-09-605-703B-1144	Sequence	1144, Ap
12	77.5	8.9	534	2	US-09-605-703B-1142	Sequence	1142, Ap
13	76.5	8.7	155	2	US-09-732-210-1631	Sequence	1631, Ap
14	76.5	8.7	463	2	US-09-134-000C-3598	Sequence	3598, Ap
15	76.5	8.7	732	5	PCT-US95-17026-2	Sequence	2, Appli
16	76	8.7	222	2	US-09-248-796A-14267	Sequence	14267, A
17	76	8.7	2954	2	US-09-150-867-1	Sequence	1, Appli
18	76	8.7	2954	3	US-09-724-584-1	Sequence	1, Appli
19	75.5	8.6	341	2	US-09-252-991A-21448	Sequence	21448, A
20	75.5	8.6	463	2	US-08-792-295-1	Sequence	1, Appli
21	75.5	8.6	463	2	US-09-076-432-1	Sequence	1, Appli
22	75.5	8.6	523	2	US-10-104-047-3546	Sequence	3546, Ap
23	75	8.6	2183	2	US-08-746-111-5	Sequence	5, Appli
24	74.5	8.5	343	2	US-09-807-258-24	Sequence	24, Appl
25	74.5	8.5	427	2	US-09-591-447D-2	Sequence	2, Appli
26	74.5	8.5	467	2	US-09-134-001C-3579		3579, Ap
27	74	8.5	202	2	US-09-134-001C-3860	Sequence	3860, Ap
28	74	8.5	307	2	US-09-023-905A-36		36, Appl
29	74	8.5	359	2	US-09-710-279-2454		2454, Ap
30	74	8.5	378	2	US-09-134-001C-4464	Sequence	4464, Ap
31	74	8.5	641	2	US-09-724-623-76	•	76, Appl
32	74	8.5	641	3	US-10-288-930-76		76, Appl
33	73	8.3	234	2	US-09-107-532A-6670		6670, Ap
34	73	8.3	316	2	US-09-107-532A-4924		4924, Ap
35	73	8.3	598	2	US-09-512-563C-8		8, Appli
36	73	8.3	598	2	US-09-512-563C-12		12, Appl
37	73	8.3	598	2	US-10-060-607-8		8, Appli
38	73	8.3	598	2	US-10-060-607-12		12, Appl
39	73	8.3	598	2	US-10-104-047-2716		2716, Ap
40	73	8.3	653	2	US-09-540-236-3128	-	3128, Ap
41	72.5	8.3	433	2	US-09-809-665A-161	_	161, App
42	72.5	8.3	2871	2	US-09-538-092-936	<del>-</del>	936, App
43	72.5	8.3	3542	2	US-10-087-013-2	<del>-</del>	2, Appli
44	72	8.2	301	2	US-09-107-532A-4934	_	4934, Ap
45	72	8.2	377	2	US-09-489-039A-12546	Sequence	12546, A

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RESULT 1
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; Sequence 6064, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
  FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6064
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LENGTH: 298
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US-09-328-352-6064
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   Best Local Similarity 22.4%; Pred. No. 0.024;
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Qу
                         1::1:1:::1 :: 1::::1 :::1
                    50 KLDLQVEEKGIDGPVTRVDRYLEQLTIDTLRKSYKNHSFLGEEFGLQEGKGHDADWCWVI 109
Db
                    90 SPLSKTNGYI-----GVTEDGVI----STFHGRPGILSEPIOSFF 125
Qу
                                                                11 1 :1
                  110 DPLDGTQNFINGFPHFCISIAVQHKGVTQHGVIYDPVRDELFSASRGRGAVMNQ----- 163
Db
                  126 QIDIKRLESRMADDLRK----GIPYRTKKEFEHV-----IEAVKSSGSQ 165
Qу
                                ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
                  164 ----RRIRVNVKDSLENTFLAVGHPYRAKRAGEIVSYAEQHFASLLAVTQAGAQ 213
Db
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; Sequence 346, Application US/09830230A
; Patent No. 6902893
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
  TITLE OF INVENTION: Lyme Disease Vaccines
  FILE REFERENCE: PB481US
    CURRENT APPLICATION NUMBER: US/09/830,230A
    CURRENT FILING DATE: 2001-09-27
    PRIOR APPLICATION NUMBER: PCT/US98/12718
    PRIOR FILING DATE: 1998-06-18
    PRIOR APPLICATION NUMBER: 60/057,483
    PRIOR FILING DATE: 1997-09-03
; PRIOR APPLICATION NUMBER: 60/053,344
; PRIOR FILING DATE: 1997-07-22
; PRIOR APPLICATION NUMBER: 60/053,377
; PRIOR FILING DATE: 1997-07-22
  PRIOR APPLICATION NUMBER: 60/050,359
  PRIOR FILING DATE: 1997-06-20
  NUMBER OF SEQ ID NOS: 756
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; SEQ ID NO 346
       LENGTH: 592
       TYPE: PRT
       ORGANISM: Homo sapiens
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   Best Local Similarity 28.5%; Pred. No. 0.15;
                  57; Conservative 16; Mismatches 83; Indels 44; Gaps
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Qу
                          105 FSQGDYKRIAIGTAIHGIYLSVNGAISFKNLNRLIP----QIYLGAGYYDIISAIEFSK 159
                   55 EAARTLEDFKAAYKGWQLIDQKKGFIL----FRKQVDDISPLSKTNGYIGVTEDGVIST 109
QУ
                          160 EETNNLYFSSGVYGDIFLISQKSGFIKKISFPFKKQIIRILDLSSKN-----VEKILVRT 214
Db
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110 FHGR-----PGILSEPIQSFFQIDIKRLESRMADDLRKGIPY-----RTKKEF 152
Qy
                           215 YDNHFYSYINGQWVFIGKLSLQDQDFFE----KSQRMQLAKNKGSIYLTAYTLRNKKAV 269
Db
         153 EHVIEAVKSSGSQHHVEDMK 172
Qу
             : : : | | | |
Db
         270 DERFKFIKDSGMNAVVIDFK 289
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US-09-830-230A-345
; Sequence 345, Application US/09830230A
; Patent No. 6902893
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
  TITLE OF INVENTION: Lyme Disease Vaccines
  FILE REFERENCE: PB481US
  CURRENT APPLICATION NUMBER: US/09/830,230A
  CURRENT FILING DATE: 2001-09-27
  PRIOR APPLICATION NUMBER: PCT/US98/12718
  PRIOR FILING DATE: 1998-06-18
  PRIOR APPLICATION NUMBER: 60/057,483
  PRIOR FILING DATE: 1997-09-03
  PRIOR APPLICATION NUMBER: 60/053,344
  PRIOR FILING DATE: 1997-07-22
  PRIOR APPLICATION NUMBER: 60/053,377
  PRIOR FILING DATE: 1997-07-22
  PRIOR APPLICATION NUMBER: 60/050,359
  PRIOR FILING DATE: 1997-06-20
  NUMBER OF SEQ ID NOS: 756
  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 345
   LENGTH: 612
   TYPE: PRT
   ORGANISM: Homo sapiens
US-09-830-230A-345
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 Best Local Similarity 28.5%; Pred. No. 0.15;
         57; Conservative 16; Mismatches
                                            83;
                                                  Indels
                                                           44; Gaps
           2 YSRSKFK---IGLLLIG---SLLAALSF-HLEALAEKPAKVQIQLEKVYLDGDVGIENKV 54
Qу
             :1: :1 11 : 1 1: 1:11 :1 1
                                                  125 FSQGDYKRIAIGTAIHGIYLSVNGAISFKNLNRLIP----QIYLGAGYYDIISAIEFSK 179
Db
          55 EAARTLEDFKAAYKGWQLIDQKKGFIL----FRKQVDDISPLSKTNGYIGVTEDGVIST 109
Qу
                                          1:11: 1 11 1
                - 1
                       | :: |
         180 EETNNLYFSSGVYGDIFLISQKSGFIKKISFPFKKQIIRILDLSSKN-----VEKILVRT 234
Db
         110 FHGR-----RTKKEF 152
Qу
                           Db
         235 YDNHFYSYINGQWVFIGKLSLQDQDFFE----KSQRMQLAKNKGSIYLTAYTLRNKKAV 289
         153 EHVIEAVKSSGSQHHVEDMK 172
Qу
               ::| ||
                          1 1 1
         290 DERFKFIKDSGMNAVVIDFK 309
Db
RESULT 4
US-09-538-092-963
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; Sequence 963, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Giot, Loic
; APPLICANT: Mansfield, Traci A.
 TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
  CURRENT APPLICATION NUMBER: US/09/538,092
  CURRENT FILING DATE: 2000-03-29
  PRIOR APPLICATION NUMBER: 60/127,352
  PRIOR FILING DATE: 1999-04-01
  PRIOR APPLICATION NUMBER: 60/178,965
  PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
  SOFTWARE: CuraPatSeqFormatter Version 0.9
; SEQ ID NO 963
   LENGTH: 435
   TYPE: PRT
   ORGANISM: Homo sapiens
   FEATURE:
   NAME/KEY: misc_feature
   LOCATION: (0)...(0)
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US-09-538-092-963
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Qу
             : | | | |
                           70 KQNVNAAMVFEFLYKMCDVMAAYFG-KISEENIKNNFVLIYELLDEILDF----GYPQNS 124
Db
         103 EDGVISTFHGRPGILSEPIQSFFQIDIKRLESRMADDL-----RKGIPYRTKKEFEHV 155
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Db
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Qу
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RESULT 5
US-09-664-958-12
; Sequence 12, Application US/09664958
; Patent No. 6916912
; GENERAL INFORMATION:
; APPLICANT: Trakht, Ilya
; APPLICANT: Canfield, Robert
; APPLICANT: Kalantarov, Gary
; APPLICANT: Rudchenko, Sergei
  TITLE OF INVENTION: No. 6916912el Tumor-Associaed Marker
; FILE REFERENCE: 0575/60240
; CURRENT APPLICATION NUMBER: US/09/664,958
  CURRENT FILING DATE: 2000-09-18
  NUMBER OF SEQ ID NOS: 28
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; SEQ ID NO 12
   LENGTH: 435
   TYPE: PRT
   ORGANISM: Human
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Qy
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Qу
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Qу
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Db
RESULT 6
US-09-252-991A-27916
; Sequence 27916, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
 APPLICANT: Marc J. Rubenfield et al.
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
  PRIOR APPLICATION NUMBER: US 60/094,190
  PRIOR FILING DATE: 1998-07-27
  NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 27916
   LENGTH: 354
   TYPE: PRT
   ORGANISM: Pseudomonas aeruginosa
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 Best Local Similarity 32.1%; Pred. No. 0.57;
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Qу
            112 KAAAAGMVRAQIQLAMLYRDGDGGPQDKTEAARWFR--KAAEQGDAAAQNEMGVLYWRGE 169
        86 VDDISPLSKTNGYIGVTEDGV 106
QУ
                    | | : | |
        170 -----GVDQDRV 176
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US-09-583-110-3094
; Sequence 3094, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al.
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcu
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TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
 FILE REFERENCE: PATHOO-07A
  CURRENT APPLICATION NUMBER: US/09/583,110
  CURRENT FILING DATE: 2000-05-26
  PRIOR APPLICATION NUMBER: US 09/107,433
  PRIOR FILING DATE: 1998-06-30
  PRIOR APPLICATION NUMBER: US 60/085,131
  PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
 PRIOR FILING DATE: 1997-07-02
  NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 3094
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Qу
                   10 VQNVLVETGFQTKSLLEKISYLQNQARSKNIEIIYVQ---HIEN--SEAQTSED----- 58
Db
          69 GWQL------UDQKKGFILFR-----KQ-----VDDISPLS 93
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         94 KTNGYIGVTEDGVISTFHGRPGILSEPIQSFFQIDIKRLESRMADDLRKGIPYRTKKEFE 153
Qу
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Qу
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RESULT 8
US-09-107-433-3096
; Sequence 3096, Application US/09107433
; Patent No. 6800744
   GENERAL INFORMATION:
        APPLICANT: Lynn A Doucette-Stamm and David Bush
        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
                           SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE
                           THERAPEUTICS
        NUMBER OF SEQUENCES: 5206
        CORRESPONDENCE ADDRESS:
            ADDRESSEE: GENOME THERAPEUTICS CORPORATION
             STREET: 100 Beaver Street
            CITY: Waltham
             STATE: Massachusetts
             COUNTRY: USA
             ZIP: 02354
        COMPUTER READABLE FORM:
            MEDIUM TYPE: CD/ROM ISO9660
             COMPUTER:
             OPERATING SYSTEM:
             SOFTWARE:
        CURRENT APPLICATION DATA:
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APPLICATION NUMBER: US/09/107,433
;
            FILING DATE: 30-Jun-1998
        PRIOR APPLICATION DATA:
            APPLICATION NUMBER: 60/ 085131
            FILING DATE: May 12, 1998
            APPLICATION NUMBER: 60/051553
            FILING DATE: July 2, 1997
        ATTORNEY/AGENT INFORMATION:
            NAME: Ariniello, Pamela Deneke
            REGISTRATION NUMBER: 40,489
            REFERENCE/DOCKET NUMBER: GTC-011
        TELECOMMUNICATION INFORMATION:
            TELEPHONE: (781)893-5007
            TELEFAX: (781)893-8277
   INFORMATION FOR SEQ ID NO: 3096:
        SEQUENCE CHARACTERISTICS:
            LENGTH: 166 amino acids
            TYPE: amino acid
            TOPOLOGY: linear
       MOLECULE TYPE: protein
        HYPOTHETICAL: YES
        ORIGINAL SOURCE:
            ORGANISM: Streptococcus pneumoniae
        FEATURE:
            NAME/KEY: misc_feature
            LOCATION: (B) LOCATION 1...166
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US-09-107-433-3096
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 Matches 45; Conservative 27; Mismatches
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                                                          66; Gaps
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Qу
             111
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          10 VQNVLVETGFQTKSLLEKISYLQNQARSKNIEIIYVQ---HIEN--SEAQTSED----- 58
Db
          69 GWOL-----VDDISPLS 93
Qу
              : !!! :::
                                            \Box
          59 -WQLSALLNRKPAEKVFQKKYNSIFKETGLKEYLDKQGIEKLVLCGMQTEYCVDTSVKVA 117
          94 KTNGYIGVTEDGVISTFHGRPGILSEPIQSFFQIDIKRLESRMADDLRKGIPYRTKKEFE 153
Qу
               118 FEYGYQLIVPEGAVTTFDG-DDIPAETINEFYE-DI--WEERFADVL------DYK 163
Db
Qу
         154 HV 155
             |:
Db
         164 HI 165
RESULT 9
US-09-315-794-42
; Sequence 42, Application US/09315794
; Patent No. 6197517
; GENERAL INFORMATION:
  APPLICANT: Roberts, Christopher J.
  TITLE OF INVENTION: ESSENTIAL GENES OF YEAST AS TARGETS FOR ANTIFUNGAL
  TITLE OF INVENTION: AGENTS, HERBICIDES, INSECTICIDES AND ANTI-PROLIFERATION
; TITLE OF INVENTION: DRUGS
; FILE REFERENCE: 9301-053
; CURRENT APPLICATION NUMBER: US/09/315,794
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CURRENT FILING DATE: 1999-05-21
  NUMBER OF SEQ ID NOS: 64
 SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 42
   LENGTH: 348
   TYPE: PRT
   ORGANISM: Saccharomyces cerevisiae
US-09-315-794-42
                        9.0%; Score 79; DB 2; Length 348;
 Query Match
 Best Local Similarity 24.1%; Pred. No. 1.6;
                                                          32; Gaps
 Matches 42; Conservative 33; Mismatches
                                             67; Indels
          5 SKFKIGLLLIGSLLAALSFHLEALAEKPAKVQIQLEKVYL-----DGDVGIEN-KVEAAR 58
Qу
            11 : : 11 1 1
          2 SQYKTGLLLIHPAVTTTPELVENTKAQAASKKVKFVDQFLINKLNDGSITLENAKYETVH 61
Db
         59 TLEDFKAAYKGWQLIDQKKGFILFRKQVDDISPLS---KTNG-YIGVTE----DGVISTF 110
Qу
                       62 -----YLTPEAOTDIKFPKKL--ISVLADSLKPNGSLIGLSDIYKVDALINGF 107
Db
         111 HGRPGILSEPIQSFFQIDIKRLESRMADDLRKGIPYRTKKEFEHVIEAVKSSGS 164
Qу
                                             11:
                 1::11 :::1 :1 ::: 1:1
         108 E----IINEPDYCWIKMDSSKLNQTVSIPLKKKKTNNTKLQSGSKLPTFKKASS 157
Db
RESULT 10
US-09-389-341-42
; Sequence 42, Application US/09389341
; Patent No. 6200803
; GENERAL INFORMATION:
  APPLICANT: Roberts, Christopher J.
  TITLE OF INVENTION: ESSENTIAL GENES OF YEAST AS TARGETS FOR ANTIFUNGAL
  TITLE OF INVENTION: AGENTS, HERBICIDES, INSECTICIDES AND ANTI-PROLIFERATIVE
  TITLE OF INVENTION: DRUGS
  FILE REFERENCE: 9301-057
  CURRENT APPLICATION NUMBER: US/09/389,341
  CURRENT FILING DATE: 1999-09-02
  EARLIER APPLICATION NUMBER: 09/315,794
  EARLIER FILING DATE: 1999-05-21
  NUMBER OF SEQ ID NOS: 72
  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 42
   LENGTH: 348
   TYPE: PRT
   ORGANISM: Saccharomyces cerevisiae
US-09-389-341-42
                        9.0%; Score 79; DB 2; Length 348;
 Query Match
 Best Local Similarity 24.1%; Pred. No. 1.6;
         42; Conservative 33; Mismatches 67; Indels 32; Gaps 8;
           5 SKFKIGLLLIGSLLAALSFHLEALAEKPAKVQIQLEKVYL----DGDVGIEN-KVEAAR 58
Qу
             11::11 | 1
           2 SQYKTGLLLIHPAVTTTPELVENTKAQAASKKVKFVDQFLINKLNDGSITLENAKYETVH 61
Db
          59 TLEDFKAAYKGWQLIDQKKGFILFRKQVDDISPLS---KTNG-YIGVTE----DGVISTF 110
QУ
                        62 -----YLTPEAQTDIKFPKKL--ISVLADSLKPNGSLIGLSDIYKVDALINGF 107
Db
         111 HGRPGILSEPIQSFFQIDIKRLESRMADDLRKGIPYRTKKEFEHVIEAVKSSGS 164
Qу
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1::11 :::1:1
                                               11: :
Db
         108 E----IINEPDYCWIKMDSSKLNQTVSIPLKKKKTNNTKLQSGSKLPTFKKASS 157
RESULT 11
US-09-605-703B-1144
; Sequence 1144, Application US/09605703B
; Patent No. 6962989
; GENERAL INFORMATION:
 APPLICANT: Pompejus, Markus
 APPLICANT: Kroger, Burkhard
  APPLICANT: Schroder, Hartwig
  APPLICANT: Zelder, Oskar
  APPLICANT: Haberhauer, Gregor
  TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING NOVEL
  TITLE OF INVENTION: PROTEINS
; FILE REFERENCE: BGI-129CP
; CURRENT APPLICATION NUMBER: US/09/605,703B
; CURRENT FILING DATE: 2000-06-27
  PRIOR APPLICATION NUMBER: 60/142,764
; PRIOR FILING DATE: 1999-07-08
 PRIOR APPLICATION NUMBER: 60/152,318
 PRIOR FILING DATE: 1999-09-03
 NUMBER OF SEQ ID NOS: 2934
; SEQ ID NO 1144
  LENGTH: 510
   TYPE: PRT
   ORGANISM: Corynebacterium glutamicum
US-09-605-703B-1144
  Query Match
                        8.9%; Score 77.5; DB 2; Length 510;
  Best Local Similarity 21.4%; Pred. No. 4.3;
 Matches 43; Conservative 29; Mismatches
                                              76; Indels 53; Gaps
          12 LLIGSLLAALSFHLEALAEKPAKVQ----IQLEKVYLDGDVGIENKVEAARTLEDFKAAY 67
Qу
             9 LLVAPLTASLVFCNLAVAANAVEVEAESPVVINEVESNSD-PVGDWVELANTDNNNSIDI 67
          68 KGWOLIDOKK-----GFILFRKOVDDISPLSKTNG---YIGVTEDGVI 107
Qу
                                     68 SGWSLVDDKEDLENALVLPEGTEIESGGYFVIYTDSADYVPTNNTFGGQEYFGLGKDDTV 127
Db
         108 STFHGRPGILSEPIOSFFQIDI-----KRLESRMADDLRKGIPYRTKKEFEHVIEAV 159
Qy
                      | : :: |:
                                        1:
                                             - 1
                                                    1:1
         128 -TLRNAEG---EVVATYSWKDLGEHAENTYGRIPDMTGDFANTGVPTPGAKNV----AA 178
Db
QУ
         160 KSSGSQ-----HHVE 169
             : 11 :
         179 EGSGEEEGVVANAQLPFHNVE 199
Db
RESULT 12
US-09-605-703B-1142
; Sequence 1142, Application US/09605703B
; Patent No. 6962989
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
  APPLICANT: Schroder, Hartwig
 APPLICANT: Zelder, Oskar
 APPLICANT: Haberhauer, Gregor
```

```
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING NOVEL
 TITLE OF INVENTION: PROTEINS
  FILE REFERENCE: BGI-129CP
; CURRENT APPLICATION NUMBER: US/09/605,703B
; CURRENT FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: 60/142,764
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 60/152,318
; PRIOR FILING DATE: 1999-09-03
 NUMBER OF SEQ ID NOS: 2934
; SEQ ID NO 1142
  LENGTH: 534
   TYPE: PRT
  ORGANISM: Corynebacterium glutamicum
US-09-605-703B-1142
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 Best Local Similarity 21.4%; Pred. No. 4.6;
 Matches 43; Conservative 29; Mismatches 76; Indels 53; Gaps
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Qу
            1|: | |:| | |:| :| :| :| :| :| :| |:| :|
Db
          9 LLVAPLTASLVFCNLAVAANAVEVEAESPVVINEVESNSD-PVGDWVELANTDNNNSIDI 67
Qy
         68 KGWQLIDQKK-----GFILFRKQVDDISPLSKTNG---YIGVTEDGVI 107
             68 SGWSLVDDKEDLENALVLPEGTEIESGGYFVIYTDSADYVPTNNTFGGQEYFGLGKDDTV 127
Db
        108 STFHGRPGILSEPIQSFFQIDI-----KRLESRMADDLRKGIPYRTKKEFEHVIEAV 159
Qy
            128 -TLRNAEG---EVVATYSWKDLGEHAENTYGRIPDMTGDFANTGVPTPGAKNV----AA 178
        160 KSSGSQ-----HHVE 169
Qу
         : []:
Db
        179 EGSGEEEGVVANAQLPFHNVE 199
RESULT 13
US-09-732-210-1631
; Sequence 1631, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
 APPLICANT: Wu, Yonnie S.
  TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
 NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1631
  LENGTH: 155
  TYPE: PRT
  ORGANISM: Helicobacter pylori
US-09-732-210-1631
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Query Match 8.7%; Score 76.5; DB 2; Length 155; Best Local Similarity 24.5%; Pred. No. 0.96;
 Matches 34; Conservative 21; Mismatches 53; Indels 31; Gaps
         39 LEKVYLDGDVGIENKVEAARTLEDFKAAYKGWQLIDQK---KGFILFRKQVDDISPL--- 92
Qy
            Db
         26 INKMMFDGKKSVAEKI-----IYKAFNKIEEKSGEKGIEVFEKALERVRPLVEV 74
         93 -SKTNGYIGVTEDGVISTFHGRPGILSEPIQSFFQIDIKRLESRMADDLR------K 142
Qу
             75 RSRRVG--GATYQVPVEVRASRQQSLS--IRWILEATRKRNERMMVDRLANELMDAASDK 130
Db
         143 GIPYRTKKEFEHVIEAVKS 161
Qу
            1 :: 1:: : 11 1:
         131 GAAFKKKEDVHKMAEANKA 149
Db
RESULT 14
US-09-134-000C-3598
; Sequence 3598, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
 TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
 CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
 NUMBER OF SEQ ID NOS: 6812
  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3598
   LENGTH: 463
   TYPE: PRT
   ORGANISM: Enterococcus faecalis
   FEATURE:
   NAME/KEY: MISC FEATURE
   LOCATION: (262)..(262)
   OTHER INFORMATION: Amino acid 262 is Xaa wherein Xaa = any amino acid.
US-09-134-000C-3598
                       8.7%; Score 76.5; DB 2; Length 463;
 Query Match
 Best Local Similarity 27.2%; Pred. No. 4.8;
 Matches 41; Conservative 24; Mismatches 67; Indels 19; Gaps
          3 SRSKFKIGLLLIGSLLAALSFHLEALAEKPAKVQIQLEKVYLDGDVGIENKVEA---ART 59
Qу
            | |:|: ::| :||:|::::|| :| :| || ||
         26 SNRKYIIAVTACPTGIAHTYMAEDALKKKAKEMGVDI-KVETNGSEGIKNRLTAEDIARA 84
Db
         60 LEDFKAAYKGWQL--IDQKKGFILFRKQVDDISPLSKTNGYIGVTEDGVISTFHGRPGIL 117
Qу
                 Db
         85 DGVIVAADKKVEMNRFDGKK---LVNRPVSD--GIRKTEELINLAISGEAPTFHGSDSAA 139
Qу
         118 SEPIOSFFQIDIKR--LESRMADDLRKGIPY 146
            1: | | | : | | : | | : :
         140 SD-----QEDSAEGSIGSRIYKDLMNGVSH 164
Db
```

RESULT 15

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PCT-US95-17026-2
; Sequence 2, Application PC/TUS9517026
; GENERAL INFORMATION:
    APPLICANT: ZymoGenetics, Inc.
    APPLICANT: 1201 Eastlake Avenue East
    APPLICANT: Seattle
    APPLICANT: WA
    APPLICANT: USA APPLICANT: 98102
    TITLE OF INVENTION: Bovine Factor XIII
   NUMBER OF SEQUENCES: 13
   CORRESPONDENCE ADDRESS:
    ADDRESSEE: ZymoGenetics, Inc.
     STREET: 1201 Eastlake Avenue East
      CITY: Seattle
      STATE: WA
      COUNTRY: USA
      ZIP: 98102
    COMPUTER READABLE FORM:
      MEDIUM TYPE: Floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: PatentIn Release #1.0, Version #1.25
    CURRENT APPLICATION DATA:
     APPLICATION NUMBER: PCT/US95/17026
     FILING DATE:
     CLASSIFICATION:
   ATTORNEY/AGENT INFORMATION:
     NAME: Parker, Gary E
      REGISTRATION NUMBER: 31-648
     REFERENCE/DOCKET NUMBER: 94-18PC
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: 206-442-6673
      TELEFAX: 206-442-6678
  INFORMATION FOR SEQ ID NO: 2:
  SEQUENCE CHARACTERISTICS:
     LENGTH: 732 amino acids
      TYPE: amino acid
      TOPOLOGY: linear
   MOLECULE TYPE: protein
PCT-US95-17026-2
 Query Match 8.7%; Score 76.5; DB 5; Length 732; Best Local Similarity 20.6%; Pred. No. 9.5;
 Matches 32; Conservative 25; Mismatches 47; Indels 51; Gaps
          32 PAKV-----QIQLEKVYLDGDVGIENKV-----EAARTLEDFKAAY 67
Qу
                             :||: ::|: | : :|:
                                                         332 PARVVTNYFSAHDNDANLQLD-IFLEEDGNVNSKLTKDSVWNYHCWNEAWMTRPDLPVGF 390
         68 KGWQLIDQKKGFILFRKQVDDISPLSKTNGYIGVTEDGVISTFHGRPGILSEPIQSFFQI 127
Qу
                           :| ::| | : ||
         391 GGWQVVDS------TPQENSDGMYRCGPASVQAIKHG-----HVCFQF 427
Db
         128 DIKRLESRMADDLRKGIPYRTKKEFEHVIEAVKSS 162
Qy
             | ::: || : ||: ||:||:::
         428 DAPFVFAEVNSDL---VYVTAKKDGTHVVEALDTT 459
Db
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i			

GenCore version 5.1.9 Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM protein - protein search, using sw model

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(without alignments)

930.570 Million cell updates/sec

US-10-510-408-2 Title:

Perfect score: 875

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Gapop 10.0 , Gapext 0.5

2589679 seqs, 457216429 residues Searched:

Total number of hits satisfying chosen parameters: 2589679

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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10: geneseqp2006s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Result		Query				
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2	875	100.0	173	8	ADN60330	Adn60330 B. lichen
3	98.5	11.3	712	4	AAE12019	Aae12019 Neisseria
4	98.5	11.3	712	4	AAU27566	Aau27566 Neisseria
5	94	10.7	298	6	ADA34777	Ada34777 Acinetoba
6	92	10.5	547	3	AAG59650	Aag59650 Arabidops
7	92	10.5	593	3	AAG59649	Aag59649 Arabidops
8	92	10.5	638	3	AAG59648	Aag59648 Arabidops
9	91	10.4	592	2	AAY19947	Aay19947 B. burgdo
10	91	10.4	612	2	AAY19946	Aay19946 B. burgdo
11	89.5	10.2	435	7	ADJ70167	Adj70167 Human hea
12	87.5	10.0	431	7	ADJ70823	Adj70823 Human hea

13	87	9.9	1172	8	ADN19899	Adn19899	Bacterial
14	85.5	9.8	435	7	ADF09560	Adf09560	Human ada
15	84.5	9.7	435	5	ABG34126	Abg34126	Human cla
16	83	9.5	354	7	AB079170	Abo79170	Pseudomon
17	81.5	9.3	242	6	ABM72224	Abm72224	Staphyloc
18	81.5	9.3	618	4	AAU35271	Aau35271	Enterococ
19	81.5	9.3	628	4	AAU37023	Aau37023	Staphyloc
20	81.5	9.3	628	6	ABU16319	Abu16319	Protein e
21	81.5	9.3	628	6	ABM73039	Abm73039	Staphyloc
22	81.5	9.3	640	4	AAU33800	Aau33800	Staphyloc
23	81.5	9.3	770	6	ABU29164	Abu29164	Protein e
24	80	9.1	166	6	ABU02222	Abu02222	S. pneumo
25	80	9.1	166	6	ABU45719	Abu45719	Protein e
26	80	9.1	166	8	ADK46579	Adk46579	Streptoco
27	80	9.1	166	8	ADR94461	Adr94461	Novel S.
28	80	9.1	166	9	AEA58331	Aea58331	Streptoco
29	80	9.1	343	8	ADN47749	Adn47749	Thermococ
30	79.5	9.1	610	4	ABG06352	Abg06352	Novel hum
31	79.5	9.1	906	4	ABG18321	Abg18321	Novel hum
32	79.5	9.1	1001	9	AED82508	Aed82508	Hyperimmu
33	79.5	9.1	1449	4	ABG30072	Abg30072	Novel hum
34	79.5	9.1	1517	4	AAU34732	Aau34732	E. coli c
35	79.5	9.1	1517	6	ABU28788	Abu28788	Protein e
36	79.5	9.1	1538	6	ABU50305	Abu50305	Protein e
37	79	9.0	348	4	AAB49963	Aab49963	S. cerevi
38	79	9.0	348	6	ABR52821	Abr52821	Protein s
39	79	9.0	348	7	ADK62214		Disease t
40	78.5	9.0	183	6	ABM71074	Abm71074	Staphyloc
41	78.5	9.0	278	4	ABG28557	Abg28557	Novel hum
42	78.5	9.0	1486	4	AAU38135	Aau38135	Salmonell
43	78.5	9.0	1486	6	ABU47730	Abu47730	Protein e
44	78.5	9.0	1486	6	ABU47133	Abu47133	Protein e
45	77.5	8.9	297	5	ABB54975	Abb54975	Lactococc